"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9

MARKOV, Vl., Akad.; TOSHKOV, As., dr.; SHIPOLINI, R.

Effect of certain phenanthrene derivatives on hemolytic and toxic properties of gramicidin C. Izv. mikrob. inst., Sofia 7:39-46 1956.

(PHENANTHRENE, related compounds,
eff. on gramicidin C hemolytic & tox. eff. (Bul))
(ANTIBIOTICS, injurious effects,
gramicidin C, hemolytic & tox. eff., eff. of
phenanthrene (Bul))

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9

TOSHKOV, A., SHEYKOVA, G., SHIPOLINI, R.

Pathogenic effect of penicillin on guinea pigs. Zhur.mikrobiol. epid. i immun. 29 no.7:45-47 Jl '58 (MIRA 11:8)

1. Iz Nauchno-issledovatel'skogo instituta epidemiologii i mikrobiologii, Sofia.

(PENICILLIN, effects,
on gastrointestinal microbiol. & fatal doese in guinea pigs (Rus)
(INTESTINES, microbiology,
eff. of penicillin in guinea pigs (Rus))

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9

SHIPOLINI, R.

A chamber for electrophoresis on filter paper. Izv Inst khim BAN 7; 41-52 '60. (EEAI 10:9)

(Electrophoresis)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9

NIKOLINSKI, P.; BOIADZHIEVA, Ts.; MLADENOV, Iv.; SHIPOLINI, R.

Uncovering certain organic acids in vulcanized rubber by paper chromatography. Godishnik khim tekh 7 no.1/2:37-50 '60 [publ. '61].

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9

SHIPOLOV, A.D., inzh.; MIKHEYEV, V.G., inzh.

Cementation of stainless chromium steel. Metalloved. i term. obr. met. no.6:55-56 Je '62. (MIRA 15:7)

1. Kuznetskiy metallurgicheskiy kombinat.
(Steel, Stainless) (Case hardening)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9

SHIPOLOV, I. F.

Samolet - russkoe izobretenie. [The airplane - a Russian invention]. Stenogramma Publichnoi leksii, prochitannoi v Moskve. Moskva [Pravda]. 1949, 23 p. port.
DLC: TL670. 7.M6S5

SO: Soviet Transportation and Communication, A Bibliography, Library of Congress, Reference Department, Washington, 1952, Unclassified.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9

POPOVA, M.L., assistent, SHIPORINA, L.I., ordinator

Clinical aspects and treatment of hypoplastic anemia. Trudy Stal. med.inst. 16:135-141 '55 (MIRA 11:8)
(ANEMIA)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9

SHIPOSH, N.

Teaching of physics and astronomy in the schools of the Rumanian People's Republic. Fiz. v shkole 17 no.2:50-54 Mr-Ap '57. (MLRA 10:3)

1. Zamestitel' ministra obrazovaniya Rumynskoy Narodnoy Respubliki.
(Rumania--Physics--Study and teaching)
(Rumania--Astronomy--Study and teaching)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9

S/169/63/000/003/018/042
D263/D307

AUTHORS: Basova, L.G. and Shiposh, N.V.

TITLE: Distribution of air density in the troposphere and in the lower layers of the Central Arctic stratosphere

PERIODIC.L: Referativnyy zhurnal, Geofizika, no. 3, 1963, 15-16, abstract 3B103 (In collection: Probl. Arktiki i Antarktiki, no. 10, L., Morsk. transport, 1962, 63-69)

TEXT: The authors analyze air density data collected at CП-4 (SP-4) and SP-5 stations over 1956-57, using the following formula to determine the density:

$$\rho = \frac{P}{RT(1 + 0.605q \cdot 10^{-3})} \cdot 10^9$$

A graph is given of the annual course of density at heights up to 16 km. The annual variation is clearly expressed at up to 4 km, with maximum in the winter and a minimum in the summer. At 16 km

Card 1/2

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9

Distribution of air density ...

the changes of density during the year are practically nil. To explain the difference in the annual courses of ρ at various heights a calculation was made of the effect of pressure/height and temperature/height changes on the density of the air. It was found that the equilibrium layer lies between 7.5 and 8 km, above which height pressure plays the predominant part. A graph of the isolines of the vertical air density gradient over the year, constructed after SP-4 data, shows that the density gradient decreases with height. Comparison with ETC (YeTs) data shows nearly the same change of the density gradients, except for the ground layer, where at YeTs the changes are 2 times smaller than in the Arctic. In the troposphere, the changes of vertical gradients are smooth up to 7 km, and vary over the year; in the upper layers of the troposphere, the changes are more rapid and there are some maxima and minima.
[Abstracter's note: Complete translation]

Card 2/2

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9

BUROVA, L.P.; SHIPOSH, N.V.

Tropopause topography at high latitudes during the International Geophysical Year and the year of the International Geophysical Cooperation. Trudy AANII 266:143-154 '64 (MIRA 18:1)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9

L 57114-65 EWT(1) GW
ACCESSION NR: AT5017505 UR/3116/65/273/000/0132/0141

AUTHOR: Burova, L. P.; Shiposh, N. V.

TITLE: Average altitude and temperature of the tropopause in the high latitudes

SOURCE: Leningrad. Arkticheskiy i antarkticheskiy nauchno-issledovatel'skiy institut. Trudy, v. 273, 1965. Klimatologiya i radiatsionnyy rezhim Arktiki; sbornik statey (Climatology and radiation conditions of the Artic), 132-141

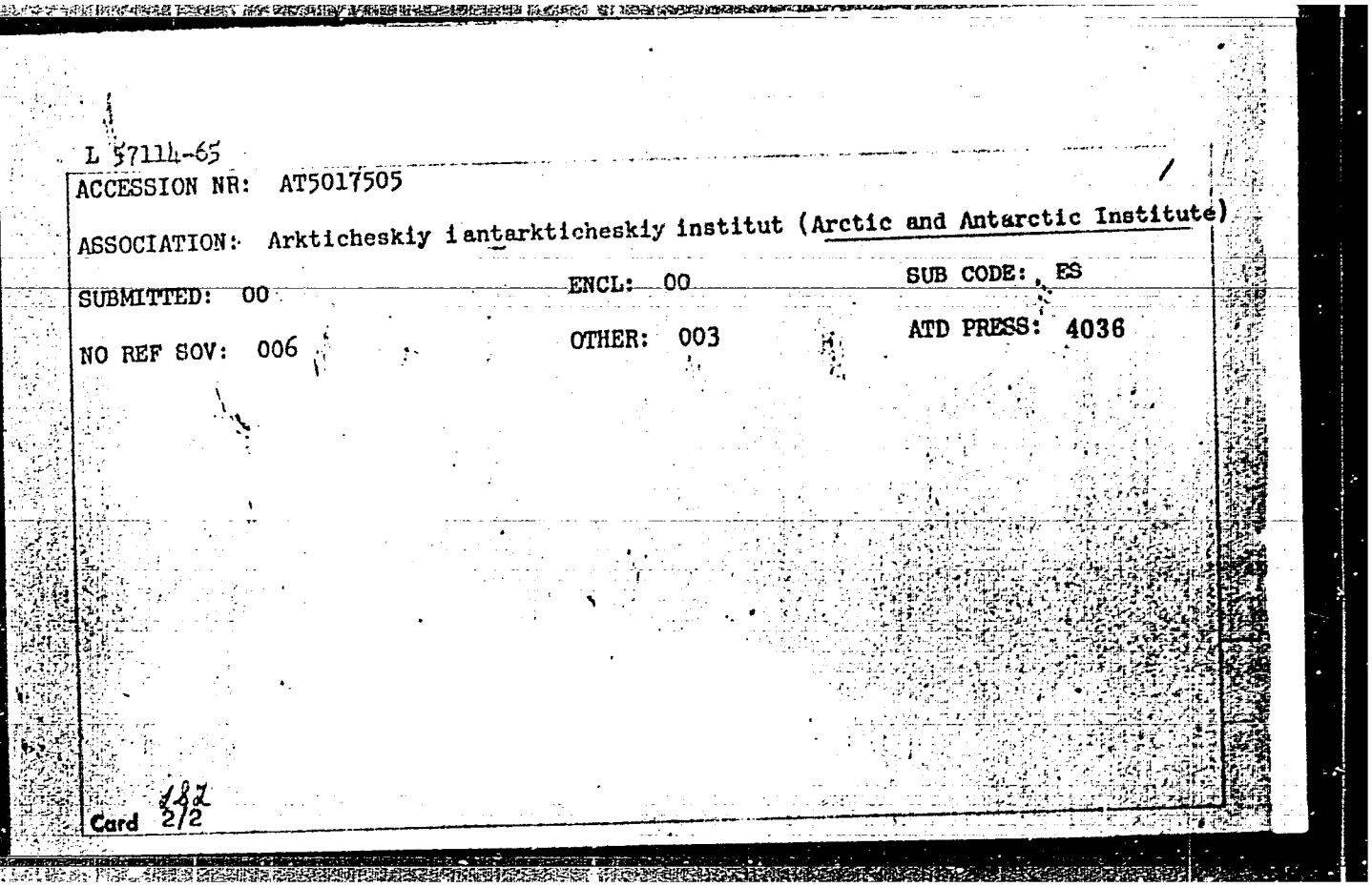
TOPIC TAGS: tropopause, Artic tropopause, tropopause temperature maxima, tropopause altitude

ABSTRACT: The authors have expanded their earlier studies (Arkt. i antarkt. inst. Trudy, no. 266, 1964) on the topography of the lower boundary of the tropopause in the Arctic to provide more precise information on its altitude and temperature for four representative months of the seasons (January, April, July, October) and for the transitional months of May and September. Small-scale charts compiled to present these data graphically are included in the paper, as are descriptions of the source materials and methods used. Absolute extreme values were determined for the altitudes and temperatures of the tropopause over all meteorological stations from which observations were made. These values are presented in tabular form for some of the regions. Orig. art. has: 7 figures and 1 table. [SP]

Card 1/2

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9



L 57114-65

ACCESSION NR: AT5017505

ASSOCIATION: Arkticheskiy i antarkticheskiy institut (Arctic and Antarctic Institute)

SUBMITTED: 00 ENCL: 00 SUB CODE: ES

NO REF SOV: 006 OTHER: 003 ATD PRESS: 4036

Card 2/2

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9

[redacted]

[redacted] of the height and temperature distribution of the troposphere over central Antarctica. Inform.biul.Sov.antark.eksp. no. [redacted]:28-31 '65. (MIRA 18:10)

1. Arkticheskiy i antarkticheskiy nauchno-issledovatel'skiy institut.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9

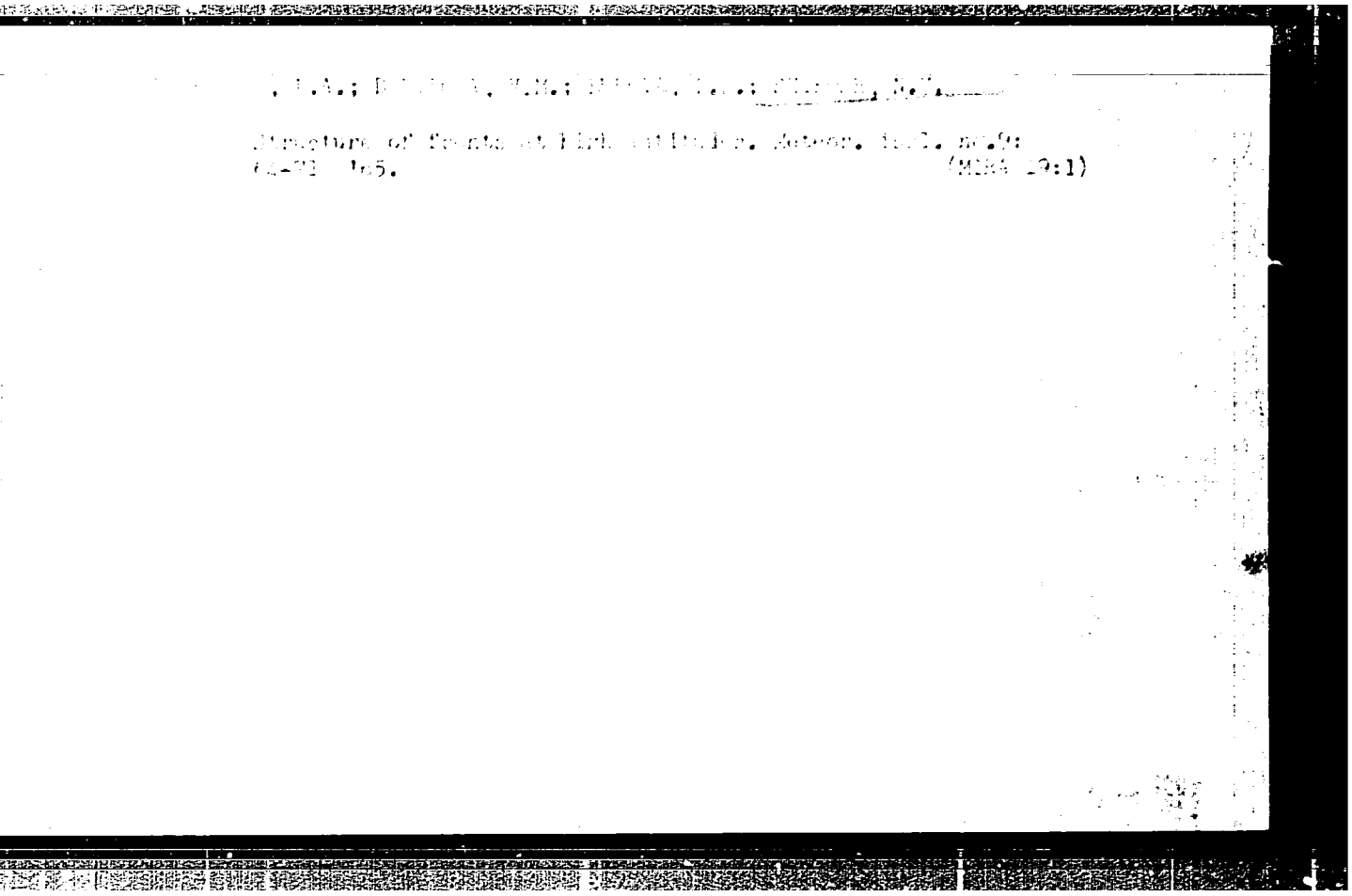
[illegible], XXXX Shamsor, Gard Agr [illegible] -- (diss) "Role of the predecessor a plication of crop rotation, [illegible] and fertilizers in the dynamics of agrono ic properties of soil and crop yield." Mos, 1[illegible], 21 pp.

(Mos Order of Lenin Agr Acad im K.A. Timiryazev)

12[illegible] (KL, 29-[illegible], 135)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9



APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9

ROSTOTSKIY, I.B., dotsent, red.; SHIPOTOVSKIY, Ya.S., red.

[Hospital management] Bol'nichnoe khoziaistvo. Pod red. I.B.Rostotskogo. Moskva. No.2. [Cleaning and disinfection of hospitals] Ochistka i dezinfektsiia bol'nits. 1959. 54 p. (MIRA 12:8)

1. Moscow. TSentral'nyy institut usovershenstvovaniya vrachey. (HOSPITALS--HYGIENE)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9

L 46179-65 EWG(j)/EWG(r)/EWT(l)/FS(v)-3/EWG(v)/EWG(a)-2/EWG(c) Pb-4/Pe-5
ACCESSION NR: AP5011558 DD UR/0219/65/059/004/0012/0014

37
36
B

AUTHOR: Bokhov, B. B.; Shipov, A. A.; Lebedinskiy, A. V.

TITLE: Some quantitative characteristics of the vestibular analyzer in rabbits

SOURCE: Byulleten' eksperimental'noy biologii i meditsiny, v. 59, no. 4, 1365, 12-14

TOPIC TAGS: vestibular apparatus, nystagmus, semicircular canal, labyrinth

ABSTRACT: The nystagmic reaction of chinchilla rabbits to rotation was investigated with respect to duration and number of oscillations after change in intensity of adequate stimulation of the vestibular analyzer (sudden stop) ranging from 110°/sec to 180°/sec. Since the experimental curves constructed on a semilogarithmic scale were not rectilinear, they could not express a logarithmic function. Mathematical analysis showed that the portion of the curve reflecting the duration of nystagmus in the 10-60°/sec range of stimuli was the closest approximation of a logarithmic function. The curve showing the number of nystagmic oscillations in the same range approximated both linear and logarithmic functions. A linear approximation of the two curves was possible in the 70-180°/sec range. A change in the nature of the curves occurred in the 60-70° range. A stimulus of about 70°/sec is equivalent to

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9

L 46179-65
ACCESSION NR: AP5011558

the activity of semicircular canal cristae at rest. After sudden halting of steady rotation, the receptors of the cristae of both semicircular canals are stimulated, and in the labyrinth with ampullopetal flow of endolymph the rate of impulses from the cristae receptors is greater than when at rest, but less in the labyrinth with ampullofugal flow. When the cupola returns to the equilibrium position, the velocity of impulses from the semicircular canal cristae with ampullopetal flow of endolymph gradually decreases to that at rest, but it increases in the opposite canal. The time required for the establishment of equilibrium impulses seemed to be determined by the duration of the nystagmic reaction. Stimuli of about 70°/sec or more block impulses from the receptors of the semicircular canal cristae with the ampullafugal flow of endolymph, thereby slightly prolonging the nystagmic reaction beyond the time determined by the logarithmic relationship. Orig. art. has 2 figures.

ASSOCIATION: Institut biofiziki, Ministerstva zdravookhraneniya SSSR, Moscow (Institute of Biophysics, Ministry of Health SSSR)

SUBMITTED: 3Ma464 ENCL: 00 SUB CODE: LS

NO REF SOV: 007 OTHER: 010

Card 2/2

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9

[redacted], B.B.; [redacted], A.A.

Properties of some quantitative characteristics of the vestibular analyzer in rabbits. Biul. eksp. biol. i med. 59 no.4: 12-14 Ap '65. (MIRA 18:5)

1. Institut biofiziki (nauchnyy rukovoditel' - doktor med. nauk Yu.G. Grigor'yev, dir. - deystvitel'nyy chlen AMN SSSR prof. P.D. Gorizontov) Ministerstva zdravookhraneniya SSSR, Moskva.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9

L 1952-66 EWT(1)/FS(v)-3 DD
ACCESSION NR: AP5023675

UR/0219/65/060/009/0059/0062
612.886-08

AUTHOR: Bokhov, B. B.; Shipov, A. A.

23
B

TITLE: The effect of repeated series of stimulations of the vestibular analyzer of rabbits on the quantitative relation of the duration of nystagmus to the value of reverse angular acceleration

SOURCE: Byulleten' eksperimental'noy biologii i meditsiny, v. 60, no. 9, 1965, 59-62

TOPIC TAGS: animal physiology, autonomic nervous system, vestibular analyzer, rabbit, nystagmus, angular acceleration

ABSTRACT: Cupulometry, a method of studying the vestibular function based on registering the nystagmic reaction to a series of adequate stimuli of increasing force, has been applied chiefly to humans. However, research indicates the possibility of using this method on animals. In this work the influence of repeated series of stimulations of the vestibular analyzer of rabbits on the duration of nystagmus in a range of stimuli twice exceeding the cupulometric range is considered. Rabbits were rotated in a clockwise direction, with the axis of rotation through their heads.

Card 1/3

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9

L 1952-66
ACCESSION NR: AP5023675

Adequate stimulus consisted of reverse angular acceleration created by unexpected stopping of a steadily revolving stand. Conditions were uniform in all experiments: acceleration during buildup—5°/sec^2; duration of rotation—1 min; interval between two consecutive rotations—1 min; stopping time—0.15 sec. Three groups of five animals each were subjected to 1) 18 stimuli of increasing magnitude (minimum 10° in sec, maximum 180° in sec); 2) 12 decreasing stimuli (maximum 120°, minimum 10°); 3) 12 stimuli of increasing series (10°—120° in sec) followed after a 5-min interval by 12 stimuli of decreasing series (120°—10° in sec). In all cases the experiment was performed five times with 2—6-day intervals. Experiments showed that stimuli of both increasing and decreasing series shorten the nystagmic reaction, most noticeably from the first experiment to the second. Experiments with vestibular simuli a) increasing in force, b) decreasing in force, and c) first increasing and then decreasing showed that in all three types, the relationship of the duration of nystagmus to the logarithm of the value of the stimulus does not change. It was concluded that the shortening of nystagmus observed in these rotation tests is the result of training, which extends to the entire semicircular canal "system." It is possible that the state of training of the vestibular analyzer is generalized to affect all reactions to nystagmogenic stimuli. Orig. art. has: 2 figures. [JS]

ASSOCIATION: none

Card 2/3

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9

L 1952-66
ACCESSION NR: AP5023675 O

SUBMITTED: 23Jun64 ENCL: 00 SUB CODE: LS

NO REF SOV: 005 OTHER: 011 ATD PRESS: 4115

Card 3/3

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9

KOST, A.N.; YUDIN, L.G.; SHIPOV, A.E.

Reduction by formic acid and its derivatives. Part 4: Reduction of N-alkylpyridinium salts. Vest.Mosk.un. Ser.mat.,mekh.,astron., fiz.,khim. 11 no.1:209-212 '56. (MIRA 10:12)

1. Kafedra organicheskoy khimii Moskovskogo universiteta.
(Reduction, Chemical) (Pyridinium compounds)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9

Card 1/2

AUTHORS: Yudin, L. G., Kost, A. N., Berlin, Yu. A. 79-11-24/56
Shipov, A. E.

TITLE: Reduction With Formic Acid and its Derivatives (Vostanovleniye murav'inoy kislotoy i yeye proizvodnymi). VII. On the Reduction of Compounds With a Pyridine Nucleus (VII. O vostanovlenii soyedineniy, soderzhashchikh piridinovoye yadro).

PERIODICAL: Zhurnal Obshchey Khimii, 1957, Vol. 27, Nr 11, pp. 3021-3026 (USSR)

ABSTRACT: The authors earlier showed that the process of reduction of the quinoline salts with formic acid (up to 1-alkyl-1,2,3,4-tetrahydroquinolines) is greatly accelerated upon addition of triethylamine. In the present work this observation was used in the reduction of a number of other compounds with pyridine-nucleus. Chlorides and bromides of N-alkylpyridine in the reduction with formic acid and sodium-formate chiefly formed 1-alkylpiperidines and only 10-15% 1-alkylpiperidines. In the experiment to reduce in this manner the iodides of N-ethyl- or N-butyl-pyridine only labile compounds were obtained. With triethylamine in the place of formate, however, the iodides and sulfates of N-alkylpyridine salts, like

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the bromides and chlorides, are reduced. The period of reaction is in this connection shortened from 18-20 to 3-4 hours and the yields of 1-alkyl-Δ^3-piperidines increased to 25-35%. Thus the salts of N-alkylpyridine are fairly easily reduced, where a mixture of 1-alkylpiperidines and 1-alkylpiperideines forms. The latter are separated over their dibromides with subsequent splitting off. In the reduction of isoquinoline and its quaternary salts a hydrogenation of the pyridine-ring and the formation of 1,2,3,4-tetrahydroisoquinoline takes place.
There are 15 references, 3 of which are Slavic.

ASSOCIATION: Moscow State University (Moskovskiy gosuderstvennyy universitet).

SUBMITTED: November 1, 1956

AVAILABLE: Library of Congress

 1. Formic acid - Derivatives 2. Pyridines - Derivatives

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9

5(3)

SOV/79-29-5-9/75

AUTHORS: Mastryukova, T. A., Shipov, A. E., Kabachnik, M. I.

TITLE: Method of Preparation of Dialkyl-Thiophosphinic Acids (Metod polucheniya dialkiltiofosfinovykh kislot)

PERIODICAL: Zhurnal obshchey khimii, 1959, Vol 29, Nr 5, pp 1450 - 1453 (USSR)

ABSTRACT: **This paper reports on a method of synthesizing dialkyl-thiophosphinic acids with different radicals on the phosphorus. The scheme of this method can be represented by the following equations:**

$$(RO)_2PHO + 3R'MgX \longrightarrow R'_2POMgX + 2ROMgX + R'H$$

$$R'_2POMgX + S \longrightarrow R'_2PSOMgX$$

$$R'_2PSOMgX + HCl \longrightarrow R'_2PSOH + 2\ MgXCl$$

According to this new method R_2PSOH-acids (R= C_2H_5, C_3H_7, iso-C_3H_7, C_4H_9, iso-C_4H_9 and $C_6H_5CH_2$) were obtained. The yields were 64 - 88%. In the table constants, neutralization equivalents,

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data of the elementary analysis and yields of the resulting acids are summarized. The formation of the dialkyl-thiophosphinic acids according to the new scheme was confirmed by the synthesis of the ammonium salt of the dipropyl-thiophosphinic acid. There are 1 table and 16 references, 10 of which are Soviet.

ASSOCIATION: Institut elementoorganicheskikh soyedineniy Akademii nauk SSSR (Institute of Elemental-Organic Compounds of the Academy of Sciences, USSR)

SUBMITTED: March 27, 1958

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9

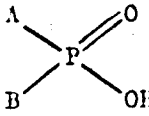
5 (3)

AUTHORS: Mastryukova, T. A., Melent'yeva, T. A., SOV/79-29-7-18/83
Shipov, A. E., Kabachnik, M. I.

TITLE: The Application of the Hammette (Gammette ?) Equation to the Ionization Constants of Organophosphoric Acids in 7- and 80 % Alcohol (Primeneniye uravneniya Gammetta k konstantam ionizatsii fosfororganicheskikh kislot v 7 i 80 % spirte)

PERIODICAL: Zhurnal obshchey khimii, 1959, Vol 29, Nr 7, pp 2178-2182 (USSR)

ABSTRACT: In connection with investigations in the field of the tautomerism of organophosphorus compounds (Ref 3) the authors determined the apparent ionization constants of the phosphoric acid series of the general formula:



in 7- and 80 % alcohol. It was of interest to investigate to what extent the Hammette (Gammette ?) equation ($\lg \frac{K}{K_o} = \rho \sum \sigma$) holds in the case of these solvents. It was especially interesting because the authors determined the ionization constants of some types of phosphoric acids which earlier had not been measured, i.e. of diaryl

Card 1/3

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9

The Application of the Hammette (Gammette ?) Equation SOV/79-29-7-18/83
to the Ionization Constants of Organophosphoric Acids in 7- and 80 % Alcohol

phosphinic-(A=B=Ar) and diaryl phosphoric acid (A=B=ArO). The results obtained, together with some other data marked with asteriks (Ref 3) are given in table 1. The constants σ for the aroxy groups at the phosphorus have hitherto been unknown. Their apparent ionization constants (pK_1 and pK_2) of phenyl and diphenyl phosphoric acid as well as of tolyl and ditolyl phosphoric acid were determined in 50 % alcohol as far as the constants ρ and pK for the ionization of phosphoric acids in this solvent are computed precisely enough (Ref 1). The results obtained (Table 2), from which the mean values σ for the groups C_6H_5O and C_7H_7O were computed, may be found in the last column of table 2. The values found σ were used for plotting the diagram $pKf(\Sigma\sigma)$ for 7- and 80 % alcohol and then exactly determined by means of the data obtained from the two solvents. The final mean values for the groups C_6H_5O and $CH_3C_6H_4O$ are written down provisionally. There are 1 figure, 4 tables, and 17 references, 3 of which are Soviet.

Card 2/3

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9

The Application of the Hammette (Gammette ?) Equation to the Ionization Constants of Organophosphoric Acids in 7- and 80 % Alcohol

SOV/79-29-7-18/83

ASSOCIATION: Institut elementoorganicheskikh soyedineniy Akademii nauk SSSR (Institute of Elemental Organic Compounds of the Academy of Sciences, USSR)

SUBMITTED: March 10, 1958

Card 3/3

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9

5(2,3,4)

AUTHORS: Kabachnik, M. I., Academician, SOV/20-124-5-27/62
Mastryukova, T. A., Shipov, A. E., Melent'yeva, T. A.

TITLE: The Use of Hammett's Equation in the Theory of Tautomeric Equilibrium (Primeneniye uravneniya Gammetta v teorii tautomernogo ravnovesiya). The Thion-Thiol Tautomerism of Thiophosphoric Compounds (Tion-tiol'naya tautomeriya tiofosfornykh soyedineniy)

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 124, Nr 5, pp 1061-1064 (USSR)

ABSTRACT: The first and second authors have proved (together with S. T. Ioffe) that Broensted's (Brensted) equation is applicable to organo-thiophosphoric acids (Ref 3). The first author has also found that the relation between the equilibrium constant and the ionization constants of the forms $K_{1S} = K_{1S}/K_{2S}$ is of fundamental importance in the theory of tautomeric equilibrium. In accordance therewith the theory of Broensted-Izmaylov regarding the acid-alkali protolytic equilibrium (Ref 2) has been applied to the tautomeric equilibrium in solutions. Thus, a quantitative interpretation of the ion theory

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of tautomerism has been suggested. The fact that Broensted's equation is applicable to the organo-thiophosphoric acids rendered determination of the position of the tautomeric equilibrium of dialkyldithio-phosphoric acids (Ref 3) and of the alkylthioalkyl-phosphinic acids (Ref 4) possible. There was every reason to use Hammett's equation for the purpose stated in the title. This was possible with the aid of two equations (1) It must be borne in mind, however, that the experimental measurements did not give the ionization constants of individual forms but certain effective constants K_a, which have a certain relation ((2), Ref 7) to the ionization constants of the forms. The substitution of K_1 and K_2 from equations (1a) and (1b) in relation (2) enables the constant K_a to be easily derived from the parameters of Hammett's equation (3). This relationship is graphically expressed with the coordinates pK and $\Sigma\sigma$ by the curve $pK_a = \varphi(\Sigma\sigma)$, which is asymptotic to the two straight lines I and II (Fig 1).

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This facilitates a derivation of the experimental method of the quantitative solution to the problem. Table 1 gives the effective ionization constants (pK_a) of the series of the tautomeric acids $RR'P(S)OH \rightleftharpoons RR'P(O)SH$, which differ by the R and R' groups and consequently by the $\Sigma\sigma$ values (calculated according to references 6,9). As may be seen from figure 2, there is a good linear relationship for the points having $\Sigma\sigma$ values between -3 and -2. From the results obtained the parameters of the straight lines $pK_1 = pK_1^o - \rho_1\Sigma\sigma$ were determined, which define the ionization constants of the thion forms in 7 % and 80 % alcohol (least squares method, reference 10). The values found for the constants of the tautomeric equilibrium must satisfy Hammett's equation: $\log K_T = \log K_T^o + \rho_T\Sigma\sigma$ (5). Figure 3 shows the diagrams illustrating the dependence of $\log K_T$ on $\Sigma\sigma$ based on the data of the table 1. As may bee seen, the relationship according to Hammett has been expressed well

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enough. Finally, the percentages of the thiol forms were calculated with the aid of the resulting equations for the solutions of all substances investigated (Table 1). Based on the deviations of the linear dependence of Hammett's pK_a of the tautomeric acids from σ (or $\Sigma\sigma$), a quantitative analysis of tautomeric equilibrium can thus be given. There are 3 figures, 1 table, and 10 references, 7 of which are Soviet.

ASSOCIATION: Institut elementoorganicheskikh soyedineniy Akademii nauk SSSR (Institute for Elemental-Organic Compounds of the Academy of Sciences, USSR)

SUBMITTED: January 26, 1959

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SOV/62-60-1-34/37

AUTHORS: Kabachnik, M. I., Shipov, A. E., Mastryukova, T. A.

TITLE: Letter to the Editor. Esters of Hypophosphorous Acid

PERIODICAL: Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk, 1960, Nr 1, p 146 (USSR)

ABSTRACT: The authors report that the following esters of hypophosphorous acid were obtained for the first time: $(CH_3O)P(O)H_2$, bp 25-25.5° (2.5 mm), n_D^{20} 1.4275, d_4^{20} 1.2177; $(C_2H_5O)P(O)H_2$, bp 31-32° (2 mm), n_D^{20} 1.4250, d_4^{20} 1.1120. They are colorless liquids, decompose easily at room temperature, become crystalline on cooling (about -20°), are stored at -60 to -70°. It is oxidized in air and hydrolyzed with water. Since hypophosphorous acid is very often considered to be an acid with a complex anion:

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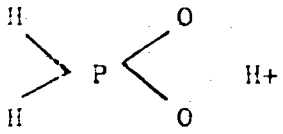
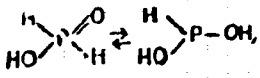


the existence of its esters was in doubt. On the other hand, A. I. Brodskiy and coworkers showed the presence of tautomerism:



which argued for the possibility of existence of its esters. It was found that hypophosphorous acid readily reacts (in the cold) with diazoalkanes to form esters, indicating that hypophosphorous acid has a covalent, not complex structure. The fact that only 1 mole of diazoalkane reacts with hypophosphorous acid (even in the presence of a large excess of diazoalkane) indicates

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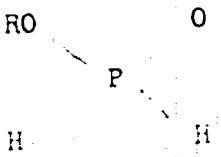
that the following form prevails:



ASSOCIATION: Institute of Element-Organic Compounds, Academy of Sciences USSR (Institut elementoorganicheskikh soyedinenly Akademii nauk SSSR)

SUBMITTED: October 15, 1959

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S/079/61/031/002/007/019
B118/B208

5 3630

AUTHORS: Mastryukova, T. A., Shipov, A. E., and Kabachnik, M. I.

TITLE: Method of synthesizing dialkyl dithiophosphinic acids

PERIODICAL: Zhurnal obshchey khimii, v. 31, no. 2, 1961, 507-512

TEXT: In view of Refs. 1-3, the authors synthesized dialkyl dithiophosphinic acids by reaction of dialkyl thiophosphites with alkyl magnesium halides, connected with sulfur addition:

$(PO)_2P(S)H \xrightarrow{R'MgX} (R'_2PSMgX) \xrightarrow{S} (R'_2PSSMgX) \xrightarrow{H+} R'_2PSSH$ (Ref. 4).

The reactions of diethyl thiophosphite with butyl magnecium bromide, with sulfur addition, gave, however, tetrabutyl dithiodiphosphyl $(C_4H_9)_2P(S)P(S)(C_4H_9)_2$ which also results from the sodium salt of the phosphite. Potassium dibutyl thiophosphite reacts with the Grignard reagent to give a mixture of tetraalkyl dithiodiphosphyl and dialkyl dithiophosphinic acid in low yield. The authors devised a method of synthesizing dialkyl di-

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Method of synthesizing ...

thiophosphinic acids from dialkyl monothiophosphinic acids (Ref. 4) according to equation

$R_2P(S)OH \xrightarrow{PCl_5} R_2P(S)Cl \xrightarrow{NaSH} R_2P(S)SNa \xrightarrow{H+} R_2PSSH$. Of the two possible reaction directions, the one according to equation

$R_2P(S)OH + PCl_5 \longrightarrow R_2P(S)Cl + POCl_3 + HCl$ (A) was found to be the only correct one. This reaction proceeds smoothly with a yield of 80-95% of the corresponding thioacid chlorides. The following reaction steps, i.e., reaction of sodium hydrosulfide with the acid chlorides of dialkyl thiophosphinic acids with subsequent separation of the free acid, also give high yields (70-90%). Dialkyl dithiophosphinic acids are colorless, mobile liquids which decompose on standing with H_2S evolution. They add to the double bond of acrylonitrile; their sodium salts are alkylated to thioethers by alkyl halides. There are 2 tables and 8 references: 2 Soviet-bloc and 3 non-Soviet-bloc.

SUBMITTED: March 24, 1960

Card 2/2

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9

KABACHNIK, M.I.; MASTRYUKOVA, T.A.; BALUYEVA, G.A.; KUGUCHEVA, Ye.Ye.; Shipov, A.E.; MELENT'YEVA, T.A.

Application of the Hammett equation to dithio phosphorus acids. Zhur. ob. khim. 31 no.1:140-145 Ja '61. (MIRA 14:1)

1. Institut elementoorganicheskikh soyedineniy Akademii nauk SSSR.
(Phosphorus acids)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9

MASTRYUKOVA, T.A.; SHIPOV, A.E.; KABACHNIK, M.I.

Dimethylphosphinothioic and dimethylphosphinodithioic acids and their derivatives. Zhur.ob.khim. 32 no.11:3579-3582 N '62. (MIRA 15:11)
(Phosphinothioic acid) (Phosphinodithoic acid)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9

SHIPOV, A.E.

"Method of production and properties of dialkyldithiophosphinic acids."

Khimiya i Primeneniye Fosfororganicheskikh Soyedineniy (Chemistry and application of organophosphorus compounds: A. Ye. [illegible] ed. Pub. by Kazan Affil. Acad. of [illegible], Moscow 1966. [illegible]

Collection of complete papers presented at the 1966 Kazan conference on chemistry of organophosphorus compounds.

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9

KABACHNIK, M. I.; MASTRYUKOVA, T. A.; SHIPOV, A. E.

Reaction of phosphite amides and phosphinite amides with acid anhydrides. Zhur. ob. khim. 33 no.1:320-321 '63.
(MIRA 16:1)

(Phosphinous amide) (Anhydrides)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9

MAS[illegible]TSOVA, T.A., SHIPOV, A.E., ARALYAYEVA, V.M., KUSOVNEVA, [illegible],
KABACHNIK, M.I., academician

Reactivity of ambident anions. Alkylation of sodium derivatives of arylacetic ester and arylacetone by vinyl oxonium fluoborids. Dokl. AN SSSR 164 no.2:340-343 S '65.
(MIRA 18:9)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.

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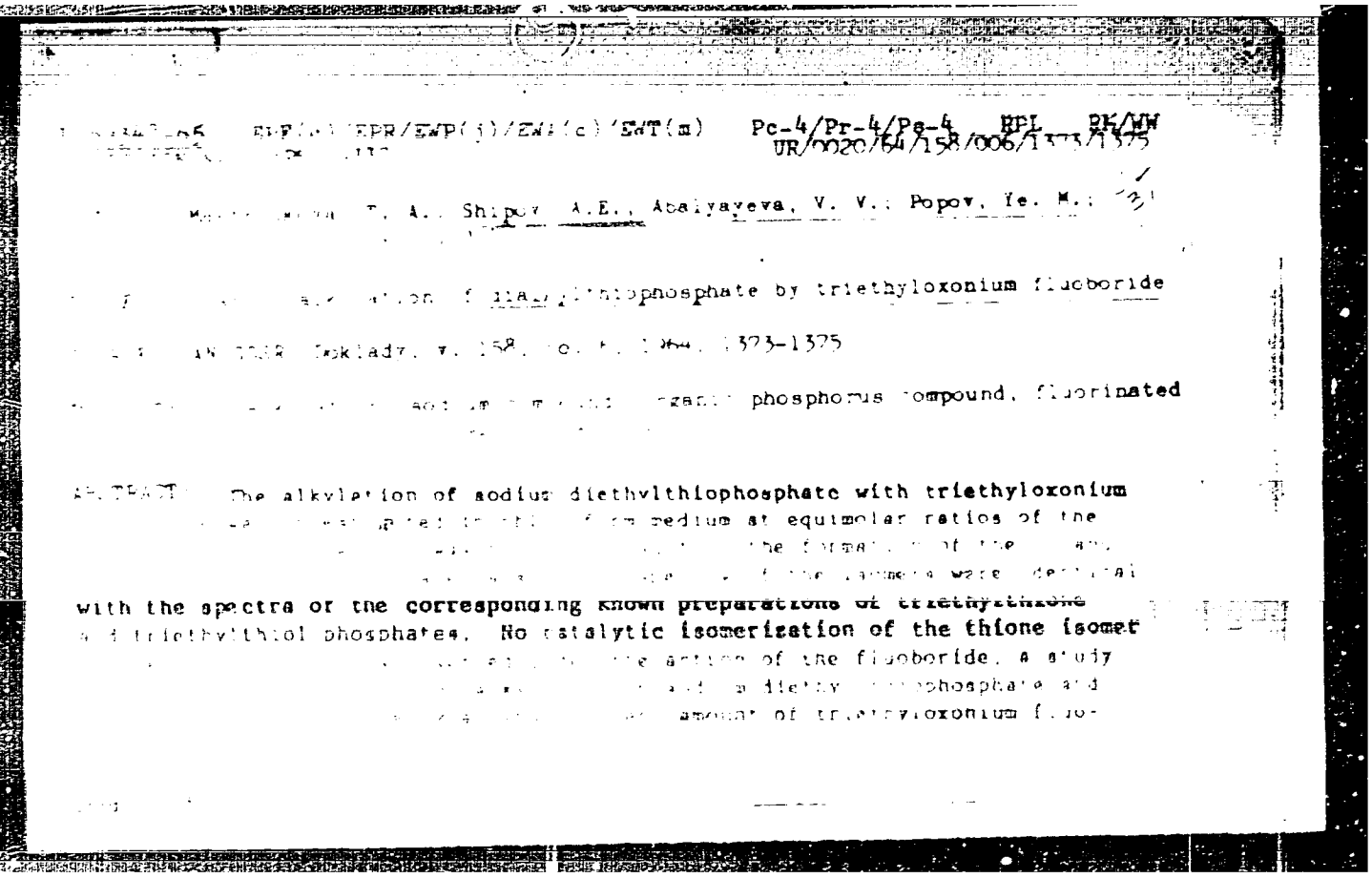

EWP(j)/EPR/EWP(j)/EWI(c)/EWT(m) Pc-4/Pr-4/Ps-4 RPL DK/WW
UR/0020/64/158/006/1373/1375

[illegible] T. A., Shipov A.E., Abalyayeva, V. V.; Popov, Ye. M.; [illegible]

[illegible] f [illegible]thiophosphate by triethyloxonium fluoboride

[illegible] SSSR Doklady, v. 158, no. 6, 1964, 1373-1375

[illegible] organic phosphorus compound, fluorinated

ABSTRACT: The alkylation of sodium diethylthiophosphate with triethyloxonium [illegible] medium at equimolar ratios of the [illegible] the formation of the [illegible] the isomers were detected with the spectra of the corresponding known preparations of triethylthione [illegible] triethylthiol phosphates. No catalytic isomerization of the thione isomer [illegible] the action of the fluoboride. A study [illegible] diethyl thiophosphate and [illegible] amount of triethyloxonium fluo-

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boride showed that alkylation of the salt is more rapid than isomerization of the triethylthione phosphate.

Orig. art. has: 4 formulas.

ASSOCIATION: Institut elementoorganicheskikh soyedineniy Akademii nauk SSSR (Institute of Heteroorganic Compounds, Academy of Sciences SSSR)

SUBMITTED: [illegible] DATE ACQ: [illegible]

SUB CODE: [illegible] NR REF SOV: 007 OTHER: 007 JPRS

Card 2/2

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9

KABACHNIK, M.I., MASTRYUKOVA, T.A., SHIPOV, A.E.

Method for obtaining the oxides of unsymmetric tertiary phosphines.
Zhur. ob. khim. 35 no.9:1574-1577 S '65. (MIRA 18:10)

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9

L 29590-66 EWT(m)/EWP(j) RM

ACC NR: AP6016689 SOURCE CODE: UR/0079/65/035/009/1574/1577

AUTHOR: Kabachnik, M. I.; Mastryukova, T. A.; Shipov, A. E. 29 B

ORG: none

TITLE: Method of producing oxides of nonsymmetrical tertiary phosphines

SOURCE: Zhurnal obshchey khimii, v. 35, no. 9, 1965, 1574-1577

TOPIC TAGS: organomagnesium compound, aluminum oxide, chromatography, silica gel, alkylphosphine, alkylphosphine oxide

ABSTRACT: The reaction of dialkyl phosphites with organomagnesium compounds, followed by treatment of the reaction mixture with alkyl halides, was studied and found to be a general preparative method for producing oxides of nonsymmetrical tertiary phosphines. In most cases the tertiary phosphine oxides are formed in yields close to quantitative. The products are sufficiently pure, giving only one spot in thin-layer chromatography both on aluminum oxide and on silica gel; R_f values are cited. Orig. art. has: 1 table. [JPRS]

SUB CODE: 07 / SUBM DATE: 14Jul64 / ORIG REF: 011 / OTH REF: 014

Card 1/1 UDC: 546.183:547.25

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9

LIN'KOV, I., inzh.; SHIPOV, B., inzh.; GURVICH, Yu., inzh.

Concrete forms made of lumber and steel. Stroitel' no.3:6 Mr '58.
(Reinforced concrete construction--Formwork) (MIRA 11:2)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9

SHILOV, K., polkovnik

Soviet rocket-launching artillery. Voen. znan. 37 no.11:26-27 N '61. (MIRA 14:11)

(Rockets (Ordnance)) (World War, 1939-1945)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9

SHIPOV, B., polkovnik

Artillery fire. Voen. znan. 38 no.11:13-14 N '62.
(MIRA 15:11)

(Artillery)
(World War, 1939-1945)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9

SHIPOV, D.; SHUKHOV, O.

"Weber" carburetors. Avt. transp. 34 no.12:32-34 D '56.
(MIRA 10:2)

1. Moskovskiy zavod malolitrazhnykh avtomobiley (for Shipov).
2. Nauchno-issledovatel'skiy avtomotornyy institut (for Shukhov).
(Italy--Automobiles--Engines--Carburetors)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9

SHIPOV, D., inzh.

The K-14 carburetor used in engines of Moskvich-402 cars. Avt. transp. 35 no.12:18-20 D '57. (MIRA 11:1)

1. Moskovskiy zavod malolitrazhnykh avtomobiley.
(Automobiles--Engines--Carburetors)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9

SHIPOV, P.; YUROV, I.

The K-126P carburetor. Avt.transp. 43 no.11:46-49 N '65.
(MIRA 18:12)

1. Moskovskiy zavod malolitrazhnykh avtomobiley (for Shipov).
2. Leningradskiy karbyuratornyy zavod (for Yurov).

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9

ZARUBIN, Ivan Nikolayevich, shofer; KONEV, Boris Fedorovich; SHIPOV, D.I., redaktor; GALAKTIONOVA, Ye.N., tekhnicheskiy redaktor

[Saving gasoline in the operation of automobiles] Ekonomiia benzina pri ekspluatatsii avtomobilia. Izd.2-oe. Moskva, Nauchno-tekhn.izd-vo avtotransp.litpry, 1955. 117 p.
(Automobiles--Fuel consumption) (MLRA 9:4)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9

SHIPOV, G.A.; LYAPIN, A.I.

Using shuttles of less weight in textile plants. Prom. energ. 12 no.3: 25 Mr '57. (MLRA 10:4)
(Spinning machinery)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9

SHIPOV, G. H.

Improved lubrication property of mineral oils. (In Russian) Zhur. Prikl. Khim. 14, No. 2, 1941. Substitution products of mineral oils as lubricants. (In Russian) Ibid., No. 3, 1941. Lubrication properties of mineral oils as improved by addition of 0.5% lauric, oleic acid or surfactants. Chair of Gen. Chem., Leningrad Pedagogical Institute.

10-15-54 GGP

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9

SHIPOV, G.M., inzhener.

Economizing electric power and standardizing its consumption in the weaving mill. Prom.energ. 12 no.1:15-18 Ja '57. (MLRA 10:2)

1. Krasnovolzhskiy kombinat.
(Electric power) (Textile industry)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9

STEPANOVA, Z.S.; SHIPOV, G.M.

Using filters on the bush of a spinning machine spindle. Izv. vys. ucheb. zav.; tekh. tekst. prom. no.5:132-125 '58. (MIRA 11:12)

1. Ivanovskiy energeinstitut imeni Lenina, Krasnovelzhskiy khlopchatobumazhnyy kombinat.
(Spinning machinery--Lubrication)
(Filters and filtration)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9

SHIPOV, G.M.

Modification of the transmission from the main block to the carding roller of the ChM-450-2 carding machine. Tekst.prom. 22 no.6:46-47 Je '62. (MIRA 16:5)

1. Nachal'nik energokontrolya Krasnovolzhskogo kombinata.
(Carding machines)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9

SHIROV, G.N.

Reducing the number of covers for starch-drying cylinders. Tekst. prom. 24 no.3:61 Mr '64. (MIRA 17:9)

1. Nachal'nik energokontrolya Krasnovolzhskogo khlopchatobumazhnogo kombinata.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9

SHIPOV, G.I.

Ceramic metal bushings for loom bearings. Tekst.prom. 25 no.1 '87-88 N '65. (MIRA 18:12)

1. Nachal'nik energokontrolya Krasnovolzhskogo kombinata.

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9

TIKHONOV, B.; SHIPOV, I.

Automatic pilot. IUn.tekh. 6 no.11:33-38 N '61. (MIRA 14:11)
(Space vehicles--Guidance systems)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9

TIKHONOV, B.; SHIPOV, I.

Assembling space stations in orbit. IUn.tekh. 6 no.12:26-31 D '61. (MIRA 14:12)

(Orbital rendezvous (Space flight))

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9

SHIPOV, I.

Gyrostat. IUn.tekh. 7 no.12:26-29 D '62. (MIA 16:4)
(Gyroscope) (Space vehicles)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9

SHIPOV, I., inzh.

The Hall effect. IUn.tekh. 7 no.3:34-36 Mr '63. (MIRA 16:3)
(Hall effect) (Calculating machines)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9"

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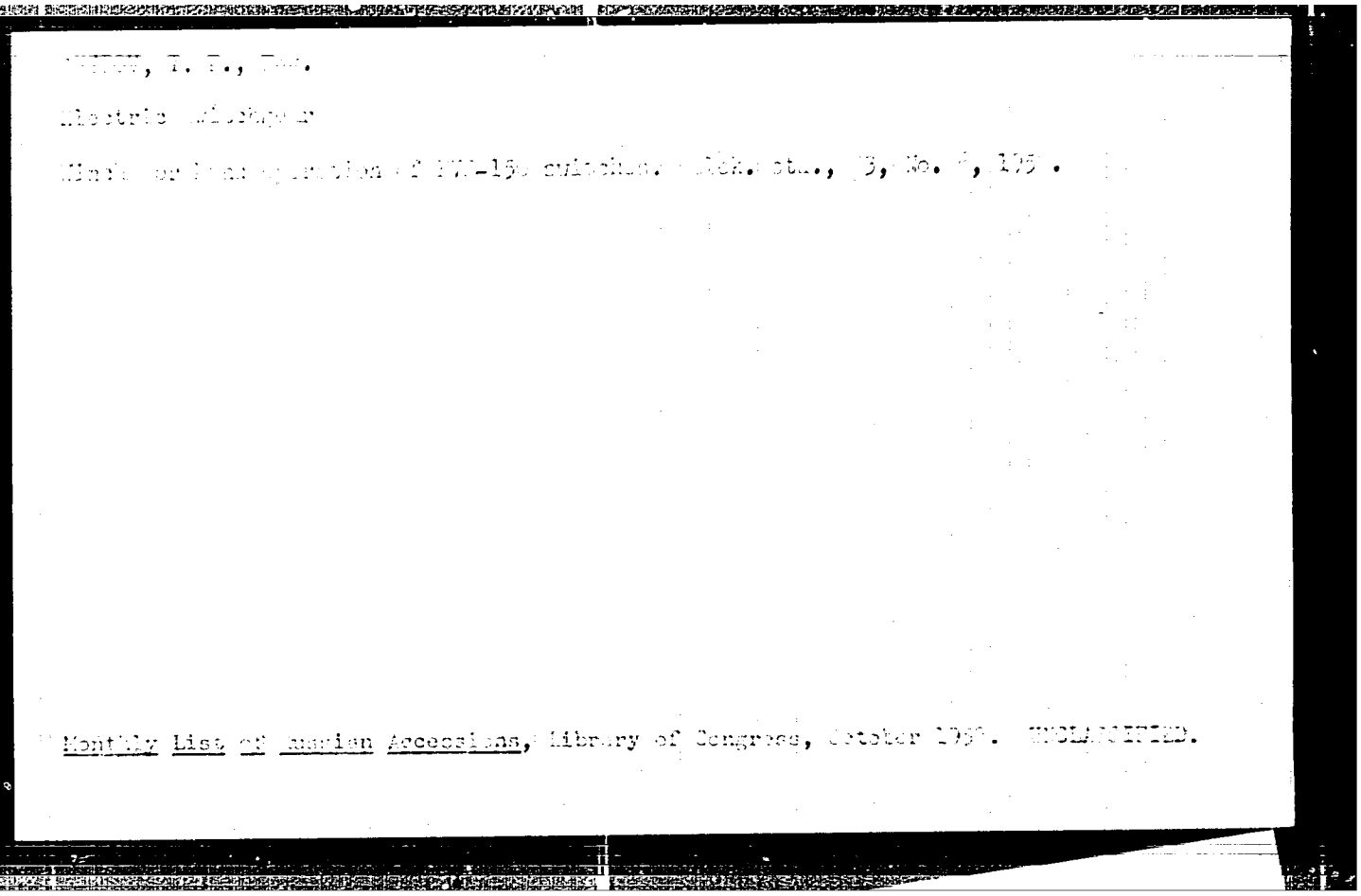

[illegible], T. F., Ref.

Electric discharge

Mini[illegible] operation of TVI-15 switches. Elek. Stat., 13, No. 4, 179.

Monthly List of Russian Accessions, Library of Congress, October 1957. UNCLASSIFIED.

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9

S/135/61/000/012/008/008
A006/A101

AUTHORS: Khrenov, K. K., Sheynkin, M. Z., Shipov, K. N., Engineers

TITLE: On techniques for the high-speed filming of a welding arc

PERIODICAL: Svarochnoye proizvodstvo, no. 12, 1961, 34-35

TEXT: For the high-speed filming of a welding arc, the authors suggest a method, replacing the "shadow" method, when light is thrown upon the arc the side opposite to the camera. The authors propose to illuminate the arc intensively from both the camera and the opposite side. This method yields a more distinct three-dimensional image of the welding arc, the electrode and the molten metal drop. The front illumination of the arc is performed with two carbon-arc КПД-25 (KPD-25) projectors, power-supplied with 150 amps current each. The illumination from the opposite side is made with a 10-kw electric lamp; the light beams are focused on the electrode by a system of lenses; a dark red КС -17 (KS-17) filter is placed before the lens. A СКС-1 (SKS-1) camera with "Industar-55" lens (F = 300 mm) is employed. For the purpose of establishing volt-ampère characteristics of the arc and of determining the dependence of arc voltage on its length, and the nature of metal transfer,

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On techniques for the high-speed filming ...

S/135/61/000/012/008/008
A006/A101

high-speed filming is synchronized with current and arc voltage oscillographing. For this purpose a special circuit was developed which serves to close the time relay contacts, which switch-on the camera and the oscillograph when the "Start" button is pressed. Difficulties of synchronization are facilitated by the following operation: an oscillograph vibrator is switched on with the aid of contacts and registers the sinusoid of the alternating current. There are 3 figures and 4 Soviet-bloc references.

Card 2/2

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9

LEBEDEVA, N.N., nauchnyy sotrudnik; SAFONOVA, A.I., nauchnyy sotrudnik; KORNEV, I.V., nauchnyy sotrudnik; STEPANOVA, Z.S., nauchnyy sotrudnik; SHIPOV, M.G.

Reducing the wear of spindle pins due to the continuous lubricant filtration in their bushings. Tekst. prom. 25 no.4:69-71 Ap '65. (MIRA 18:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut legkogo i tekstil'nogo mashinostroyeniya (for Lebedeva, Safonova, Kornev). 2. Ivanovskiy energeticheskiy institut im. Lenina (for Stepanova). 3. Nachal'nik energotsekha Krasnovolzhskogo khlopchatobumazhnogo kombinata (for Shipov).

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9

1. SHIPOV, N. M.

2. USSR (600)

4. Electric Lines

7. Installing electric transmission line cables across railroad lines. Elek. energ. 2 No. 10, 1952.

9. Monthly List of Russian Accessions, Library of Congress, January 1953. Unclassified.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9

Shipov, N. M.

AID P - 698

Subject : USSR/Electricity

Card 1/1 Pub. 29 - 9/18

Author : Shipov, N. M., Eng.

Title : Rejection of wood-pole parts of electric transmission lines

Periodical : Energetik, 8, 19-20, Ag 1954

Abstract : The Instructions on the Operation of Electric Transmission Lines (Gosenergoizdat, 1953) give only general directions about the rejection of defective parts of wood poles. The author gives more detailed information based on his own practical experience.

Institution : None

Submitted : No date

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9

SHIPOV, N.M.

AID P - 1385

Subject : USSR/Electricity

Card 1/2 Pub. 26 - 12/30

Author : Shipov, N. M., Eng.

Title : Protecting wooden angle braces on electric power transmission lines

Periodical : Elek. Sta., 2, 37 , F 1955

Abstract : The author describes one of the power systems which is using a total of 1900 angle braces on its five 110-kv lines which have wood H-frames. The gap spacing was made 1 m and the length of wood from the tip of the brace to the ground was made 9 m. In the two years of observation (1951 and 1952) only 4 braces had traces of any lightning action, while in both these years the number of lightning storms was considerable. The author concludes that the protective role of the braces cannot yet be ascertained.
1 table, 1 diagram

Institution: None

Submitted : No date

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9

AID P - 1515

Subject : USSR/Electricity

Card 1/1 Pub. 26 - 11/36

Author : Shipov, N. M., Eng.

Title : Controling the condition of pole stubs on power transmission lines

Periodical : Elek. sta., 3, 37, Mr 1955

Abstract : The author studied the process of rotting of impregnated and non-impregnated wood pole stubs in relation to the quality of the soil. He presents his findings of tests made on 878 rotten stubs.

Institution: None

Submitted : No date

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9

SHIPOV, N.M., inzhener.

Electromechanical interlock of disconnecting switches. Elek.sta. 27 no.1:52-54 Ja '56. (MLRA 9:6)
(Electric switchgear)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9

SHIPOV, N.M., inzhener.

Heating the oil and operating machinisms of circuit breakers. (MLRA 10:1)
Elek.sta.27 no.12:39 D '56.
(Electric circuit breakers)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9

SHIPOV, N.M., inzhener.

[redacted]arrangement for current limiting SDN-35 resistors. Energetik 5 no.8:27 Ag '57. (MLRA 10:10)
(Electric insulators and insulation)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9

SHIPOV, N.M., inzh.

Chemical method for destroying underbrush on the routes of el ctric power lines. Elek.sta. 28 no.12:81-82 D '57. (MIRA 1: :3)
(Electric lines) (Herbicides)

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9

SILOV, N.M., inzh.

Discarding decayed crossarms on wooden poles of power lines. Elek.sta. 29 no.6:88 Je '58. (MIRA 11:9)
(Electric lines--Poles)

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9

SHIFOV, N. V. (Eng.)

SHIFOV, N. V. (Eng.)

Lightning Arresters

Lightning protection for electic transmission lines. Elek. sta., 23, no. 7, 1952

9. Monthly List of Russian Accessions, Library of Congress, November 1952, Uncl.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9

SHIPOV, R. A.,//~~V.K~~/ LOKSHANOV, E. A. (Moscow)

"On Boundary Conditions in Stability Problems of Compressors and the Energy Exchange of the Flow with the Surrounding Medium."

report presented at the First All-Union Congress on Theoretical and Applied Mechanics, Moscow, 27 Jan - 3 Feb 1960.

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9

44675
S/258/62/002/004/005/019
E032/E314

26.2110

AUTHOR: Shipov, R.A. (Moscow)

TITLE: On the boundary conditions for non-steady-state processes in gas systems

PERIODICAL: Inzhenernyy zhurnal, v. 2, no. 4, 1962, 232 - 236

TEXT: This theoretical paper is concerned with a semi-infinite duct of circular cross-section ($M_1 = M_\infty = M$ in the gas stream). It is assumed that a wave enters the open end of the channel so that the wave field can be determined by integrating the equation

$$\frac{\partial^2\varphi}{\partial z_1^2} - \frac{2M}{a(1-M^2)}\frac{\partial^2\varphi}{\partial z_1 \partial t} - \frac{1}{a^2(1-M^2)}\frac{\partial^2\varphi}{\partial t^2} + \frac{1}{r_1(1-M^2)}\frac{\partial}{\partial r_1}\left(r_1\frac{\partial\varphi}{\partial r_1}\right) = 0 \qquad (1)$$

subject to the boundary condition

$$\frac{\partial\varphi}{\partial r_1} = 0 \quad \text{for} \quad r_1 = R_1, \quad z > 0 \qquad (2).$$

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The problem is reduced to the solution of the integral equation of Wiener-Hopf and the method described by L.A. Vaynshteyn (Zh. teoret. fiziki, v.19, no.8, 1949) is used to obtain the acoustic field inside the tube. It turns out that the wave field inside the tube consists of an incident wave, a reflected wave and a sequence of transformed waves. It is then shown that the transformed waves beyond a certain order are damped out and the analysis is specialized to the case where the excitation frequency is not too high, so that only plane waves exist in the duct without damping. When this is so, there will be practically only two plane waves beyond a certain distance from the open end, namely, the incident and the reflected. Next, the open-end correction is evaluated and plotted as a function of frequency for different values of M . The particular feature of this treatment, as compared with other analyses, is that the total pressure at the input is not assumed to be constant so that with the more general boundary condition, the final results include corrections for the fact that the process is non-steady state. There are 4 figures.

SUBMITTED: March 26, 1962

Card 2/2

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9

OL'SHTEYN, L.Ye.; SHIPOV, R.A.

Effect of aerodynamic connectedness on the stall flutter of cascades of profiles. Prom.aerodin. no.24:48-62. (MIRA 16:7)
(Cascades (Fluid dynamics))

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9

OSIPOVSKIY, L.F.; ZUBAREV, A.I.; SHIPOV, S.V.; SARAFANNIKOV, L.A.; YURCHENKO, V.A.

Drilling deep small-diameter boreholes, using a rock drill with independent rotation of the bit. Trudy Inst. gor. dela AN Kazakh. SSR 13:28-32 '64. (MIRA 17:7)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9

ЗНИГОВ, V.

Parachutes

Lessons of a parachute packers' group. Kryl. rod. 4 no. 2, 1953

9. Monthly List of Russian Accessions, Library of Congress, May 1953. Unclassified.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9

SOV/84-58-10-44/54

AUTHOR: Shipov, V.

TITLE: A Great Future (Bol'shoye budushcheye)

PERIODICAL: Grazhdanskaya aviatsiya, 1958, Nr 10, pp 36-37 (USSR)

ABSTRACT: This article deals with the role of helicopters for diverse purposes. Helicopters carry crews of line-men for the prompt repair of electric power lines and their general supervision. Helicopters are sent on special assignments into almost inaccessible territories; they are flown in emergencies during national disasters and on first aid rescue missions. Because of their growing usefulness, the author advises that every large airport maintain crews of skilled mechanics for servicing helicopters and carry spare parts. He further recommends that the Mi-4 helicopter production cost be lowered and its construction improved. Pilots frequently complain that the Mi-4 helicopter is difficult to operate; they consider the Mi-4 engine reliable, but they object to the wiring system and the complexity of lubricating the machine. There is 1 photograph.

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9

SOV/84-58-11-33/58

AUTHOR: Shipov, V., Correspondent (Khar'kov)

TITLE: 1,700,000 (Rubles) Excess Plan Profit (1,7 milliona sverkhplanovoy pribyli); (Photographs by V. Deberdeyev)

PERIODICAL: Grazhdanskaya aviatsiya, 1958, Nr 11, pp 24-27 (USSR)

ABSTRACT: The author refers to the profitable operations and management of the Khar'kov airport where the volume of freight transportation had doubled in the past three years and passenger traffic increased more thar. 4 times. The airport had operated at a profit of one million 700,000 rubles in excess of the plan in the first 9 months of 1958. How this was accomplished is told in interviews with V. Kosenko, chief of the airport, and several department heads and party officials, whose statements appear below. V. Kosenko, chief of the airport, attributed the radical improvements to the introduction of a new cost accounting system which determined whether any operation was profitable or not. Thus the Simferopol'-Chelyabinsk route (serviced by Khar'kov

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airport planes) had shown a loss of 80,000 rubles after the first six runs because of insufficient freight loads. Losses were also carried on the Khar'kov - Mineral'nyye Vody passenger and Khar'kov-Gor'kiy freight lines. The Simferopol' - Sverdlovsk air route, however, which operated only on alternate days, attracted a greater influx of passengers than it was able to accommodate. When the Ukrainian territorial administration agreed to discontinue flights on unprofitable air routes and permitted daily flight schedules to go into effect on the Simferopol' - Sverdlovsk line, this immediately resulted in considerable profits. The airport personnel heartily supported the new measure, since 30% of the excess profit was diverted to new housing. P. Cherenov, chief of the planning department, stated that statistics showed the advantage of the new cost accounting system. Flight income during the third quarter had exceeded the plan by 16.8%; savings had been effected in fuel consumption; planes engaged in pest control had overfulfilled the plan, while operating on a larger area than the year before. I. Bunin, secretary of the Party Committee, claimed that his committee had actively participated in introducing the new

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system. Informative instruction meetings had been held with each party group, discussing and examining former failures and advocating improvements. N. Ignatovich, chief, transportation department, stressed the value of advertising by radio, television, and through the press to promote passenger and freight traffic. The practice of having the port's agent call at local industrial enterprises to solicit orders and bringing freight over to the airport themselves had proved profitable. Additional income was derived from Sunday excursion flights. Five new air routes were opened in 1958, connecting Khar'kov with local centers of the oblast. S. Nekrashevich, unit commander, denied the popular view that every crew is mainly interested in financial benefits derived from flying a greater number of hours. He stated his crew was vitally concerned in exceeding the transportation plan at the least cost. Crew members frequently called at warehouses to collect and help load freight. Posted charts indicating the number of hours and ton/km flown by the crew were of concern and interest to all. D. Kulinich, acting chief of repair shops [LERM], praised his workers' performance, stressed

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the negligible amount of defects and rejected material, and the practice of posting charts of monthly rejections on bulletin boards as a warning to the personnel and a subject for critical discussion. Improved working conditions, the specialization of individual tasks, and strict control exercised over completed jobs had contributed toward larger output and reduced production costs. I. Brezgunov, chief accountant, reported that each service, except those of flights and transportation, had introduced their own cost accounting, which were checked every month. A comparison between the planned and actual expenditures demonstrated results. In cases of over-expenditures, allowances of funds and material were reduced. The department of administration and economy, with a record of over expenditures dating back many years, benefited from the introduction of cost accounting. Inventories of leftover stocks were taken into account before new allocations were extended. Labor assignments were submitted in advance, which simplified accounting. Savings in many departments were effected in July and August as a result of the new system; which also exercised strict control over expenditures representing per diem allowances and

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1,700,000 (Rubles) Excess (Cont.) SOV/84-58-11-33/58

and various managerial duties. P. Glushchenko, local committee chairman, stated that the practice of maintaining a permanent production committee to supervise working crews ensured proper control over output. Personalities mentioned are: engineer Ya. Sokol; technician B. Naryzhnyy; A. Zamotaylo, chief of radio-radar and radio-navigation service; M. Belobrov, chief, LERM sector of time-consuming schedules; P. Sinyavskiy, Sr RDS dispatcher; M. Dubovskiy, unit chief; V. Mozolevskiy and V. Titarenko, radiomen; pilots F. Fostikov, A. Trekin, Ya. Lyubimov, V. Bogoyavlenskiy. There are 10 photographs.

ASSOCIATION: Khar'kovskiy aeroport (Khar'kov Airport)

Card 5/5

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9

SHIPOV, V. (Lokhvitsa, Poltavskaya oblast')

Job full of responsibilities. Grazhd.av. 17 no.1:16 Ja '60. (MIRA 13:5)
(Airports--Equipment and supplies)

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9

SHIPOV, V.

After the flight. Grazhd.av. 17 no.4:15-18 Ap '60.
(MIRA 13:9)

1. Spetsial'nyy korrespondent zhurnala "Grazhdanskaya aviatsiya".
(Flight training)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9

SHIPOV, V.

The route of a mat. Grazhd.av. 17 no.5:21-24 My '60.
(MIRA 13:7)

1. Spetsial'nyy korrespondent zhurnala "Grazhdanskaya aviatsiya."
(Newspaper publishing)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9

SHIPOV, V.

Is this comfortable? Grazhd.av. 18 no.7:23 Jl '61. (MIRA 14:8)
(Rostov-On-Don--Airports)
(Rostov-On-Don--Hotels, taverns, etc.)

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9

SHIPOV, V.

Flight in Soviet airplanes is a real pleasure. Grazhd.av. 18 no.8:12-13 Ag '61. (MIRA 14:8)
(Aeronautics, Commercial)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9"

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9

SHIPOV, V. (Krasnodar)

Unfortunate chain reaction. Grazhd.av. 19 no.7:26-27 Jl '62.
(MIRA 15:8)

(Krasnodar—Airports)

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"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549520006-9

SHIPOV, V.

Advices of a feuilleton writer. Grazhd.av. 20 no.11:25 N '63.
(MIRA 17:2)

1. Spetsial'nyy korrespondent zhurnala "Grazhdanskaya aviatsiya".

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